

Amendments to the Specification:

Please replace the paragraph starting on p. 9, line 8 with the following amended paragraph:

Preferably, the flow sensor 22 of the measuring device is mounted, with use of sensor assembly 21, to be a distance of about 1.5 - 3.5 times the diameter of the flow measurement section 19 from the inlet of the flow measurement section. In a preferred embodiment a constant temperature anemometer (CTA) type circuit is used with the sensor, however, any velocity sensor having substantially a single-point measuring portion can be used. One example is a pitot tube. As shown in FIG. [[7]] 1 the CTA type circuit utilizes two sensor elements 27 and 28, which are aligned with each other, and which have their measuring portion ends, ~~29 and 30~~, staggered along a longitudinal axis of the sensor. In a preferred embodiment a midpoint between the ends ~~29 and 30~~ is positioned on central longitudinal axis 26 of the flow measurement section as best viewed in FIGS. 2, 4, and 6 at a distance, which is described above, downstream from the nozzle. Leads of the sensor exit the fluid flow meter conditioning body through end 31 of the sensor assembly 21 and are preferably connected to CTA sensor circuitry (not shown) which uses a modified Wheatstone Bridge to accurately measure the electrical power required to maintain the temperature difference, as discussed above. Use of such electrical power, current, or voltage measurement to determine thermal mass flow rate is known in the art.

Please replace the Abstract with the following amended Abstract:

Method and device are provided for accurately measuring fluid flow in a conduit. A fluid flow meter conditioning body, in-line with the conduit, conditions the fluid flow so as to provide a flattened and invariant fluid velocity profile. The device provides high immunity to upstream and downstream non-uniform fluid velocity profiles. Fluid diffusers adapt the device to different conduit sizes, eliminate field welding and conduit fittings. In a preferred embodiment thermal convection mass flow sensors and circuitry are used to further improve the accuracy of the measurement of the fluid flow.